



TEMP *Vio*

DIGITAL PORTABLE THERMOMETER

PT 100
NTC 30 K Ω
THERMOCOUPLE K/T



TEMP70^{vio}



Thermometers XS Vio are designed to offer the best performance combined with a simple and intuitive user interface.

They are conceived, designed, produced and assembled in Italy, thanks to the union of expert teams in metrology.

DUAL CHANNEL CENTESIMAL THERMOMETER

for PT 100 probes

Range -200,0 ... +999,0 °C

It is the ideal choice for accurate and precise measurements on a wide range of temperature.

The dual centesimal channel allows the use of the Temp 70 Vio in many applications.

The two measurement channels are simultaneously displayed in a single screen, together with the difference between the readings (ΔT).

Robust and easy to use, it is equipped with a large color backlit LCD display, to always have a clear view, even in poor external light conditions.

Automatic brightness adjustment for a long battery life.

The LED indicates the status of the measurement.

It can be powered by batteries or with the USB power supply.

FEATURES

- Centesimal ●
- Dual channel ●
- Backlit LCD display ●
- Automatic and manual datalogger ●
- 1 calibration point with date and time ●
- MIN / MAX / Delta T functions ●
- HOLD function ●
- Measurement stability indicator ●
- 3 Stability levels: H - M - L ●
- Date and time ●
- micro-USB connection ●
- DataLink+ free software ●
- IP56 protection ●
- Accredia Certificable ●



When equipped with the PT56L 1/5 DIN probe (optional), it reaches the maximum accuracy.
Perfect as a primary thermometer.



Keyboard



Dual channel PT 100

HOW TO ORDER

P/N

TEMP 70 Vio PT100
WITHOUT PROBE

50111082

Supplied with:

Transport case, USB power supply, USB cable for PC connection, batteries.



DATALINK+

The free software Datalink+ allows you to remotely control the XS VIO instruments, download stored data, view them in table or graphic form and export them in PDF or Excel file.

PT100 SENSORS

FOR ACCURATE MEASURES

3 pin connector
with security lock system,
to avoid accidental disconnections.



Model and serial number
on the handle of the probe



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t ₉₀ min	Precision class	P/N
PT56 L AIR - LIQUID	200 mm	Ø= 3 mm		- 50 ... +400	- 50 ... + 300	2	A	51000202
PT56 C CONTACT	200 mm	Ø= 5 mm		- 50 ... +400	0 ... + 250	3	A	51000212
PT56 P PENETRATION	150 mm	Ø= 4 mm		- 50 ... +400	- 50 ... + 250	2	A	51000222
PT56 A AIR	200 mm	Ø= 4 mm		- 50 ... +250	- 50 ... + 150	2	A	51000232
PT56 L 1/5 DIN	200 mm	Ø= 3 mm		- 50 ... +400	- 50 ... + 300	2	1/5 DIN	51000242
PT56 /500 AIR - LIQUID	500 mm	Ø= 6 mm		- 50 ... +400	- 50 ... + 300	5	A	51000262
PT56 /1000 AIR - LIQUID	1000 mm	Ø= 6 mm		- 50 ... +400	- 50 ... + 300	5	A	51000272

WITHOUT HANDLE - IDEAL FOR OVENS AND INCUBATORS

PT56 TFE AIR - LIQUID	100 mm	Ø= 4 mm		-100... +300 sensor + wire	- 100 ... + 250	3	A	51000252
PT56 TFE 1/5 DIN	100 mm	Ø= 4 mm		-100... +300 sensor + wire	- 100 ... + 250	3	1/5 DIN	51000292



TEMP 7 *vio*

SINGLE CHANNEL THERMOMETER

Robust and easy to use, the Temp 7 Vio is equipped with a large color backlit LCD display, to always have a clear view, even in low light conditions.

The LED above the display indicates the status of the measurement and can report any errors, visible from a distance.

The self-diagnosis messages, combined with the guided procedures, make the instrument really easy and intuitive to use.

The offset on a custom point allows you to align the measurements in case of slight drift of the chain.

COMMON FEATURES

- Resolution 0,1 °C
- Backlit LCD display
- MIN / MAX / HOLD functions
- Stability indicator
- 1 calibration point on custom value
- Auto off function
- Battery indicator
- Self diagnosis messages
- Led
- IP 56 protection
- ACCREDIA Certifiable



Offset regulation



Color backlit LCD display with self-diagnosis messages

Temp 7 PT 100 *vio*

for PT 100 probes

Range -200 ... +999 °C

Thermometer for accurate and precise measurements over a wide range of temperature. Recommended for applications in the laboratory or where an high accuracy is required. Low temperature measurements down to -200 °C.

It is possible to connect 3-wire PT 100 probes, using the 3-pin binder connector with secure fastening system, to avoid accidental disconnections.

HOW TO ORDER

P/N

TEMP 7 Vio PT100
WITHOUT PROBE

50111012



Temp 7 NTC *vio*

for 30 K Ω thermistor
Range -50,0 ... +150,0 °C

More accurate than a thermocouple and faster than a PT100, the Temp 7 Vio NTC thermometer is ideal for quick measurements in a narrow working range.

Very practical, suitable for the food industry, to monitor the air conditioning sector, HAVC systems or when it is important to have a good quality / price ratio.

HOW TO ORDER	P/N
TEMP 7 Vio NTC WITHOUT PROBE	50111052
TEMP 7 Vio NTC + NT7L WITH PROBE FOR LIQUID / AIR	50111062
TEMP 7 Vio NTC + NT7P WITH PENETRATION PROBE	50111092



Temp 7 K/T *vio*

for thermocouple type K and T
Range -250 °C ... +1350 °C

Thermometer suitable for countless applications in the industrial, pharmaceutical and food sectors, where a wide measurement range and speed are required, combined with a good accuracy.

The main feature is the reading speed: thanks to the thermocouple sensors, measurement stability can be reached within a few seconds.

Great constructive flexibility thanks to the different solutions to adapt the probe to the application: without handle, thin, foldable etc.

It is possible to adjust separately the offset of thermocouple K and thermocouple T.



HOW TO ORDER	P/N
TEMP 7 Vio K/T WITHOUT PROBE	50111032

CASE KIT

All instruments are supplied in a rigid carrying case, where the instrument and all the accessories can be housed.



PROBES

THERMOCOUPLE **K**



FOR HIGH TEMPERATURE / INDUSTRIAL APPLICATIONS



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t ₉₀ min	Precision class	P/N
3K 220 AIR - LIQUID	200 mm	Ø= 2 mm		- 60 ... +600	0 ... + 400	2	1	51000752
3K 320	200 mm	Ø= 3 mm		- 60 ... +800	0 ... + 550	3	1	51000762
3K 350	500 mm	Ø= 3 mm		- 60 ... +800	0 ... + 800	2	1	51000772
3K 6100	1000 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	4	1	51000782
3K 6120	1200 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	6	1	51000822
3K 650	500 mm FLEXABLE	Ø= 6 mm		- 60 ... +1100	0 ... + 1100	7	1	51000792
3K 415 P PENETRATION	150 mm	Ø= 4 mm		- 50 ... +600	0 ... + 550	2	1	51000832
3K 520 C CONTACT	200 mm	Ø= 5 mm		- 60 ... +600	0 ... + 250	2	1	51000802

WITHOUT HANDLE - IDEAL FOR PIPES AND CRAMPED SPACES

3K 1200 MANIPULABLE WIRE	2000 mm	Ø= 2 mm		- 60 ... +400	0 ... + 300	1	1	51000812
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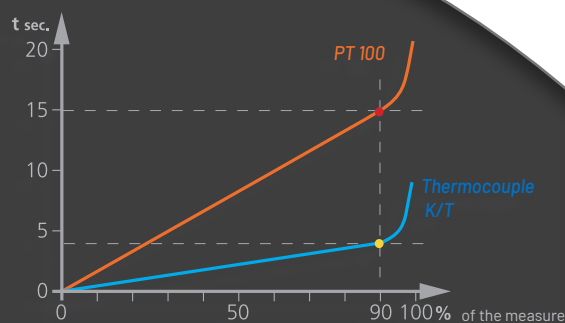


3K 1200
manipulable wire 2 m

Sensor specifications

	Measuring range	Precision class	Accuracy
PT 100	-100 °C +0 °C +100 °C +200 °C	class A	±0,35 °C ±0,15 °C ±0,35 °C ±0,55 °C
	-100 °C +0 °C +100 °C +200 °C	class 1/5	±0,16 °C ±0,06 °C ±0,16 °C ±0,26 °C
Thermocouple K	-60...+1200 °C	1	±1,5 °C or 0,4% T*
Thermocouple T	-40...+350 °C	1	±0,5 °C or 0,4% T*
NTC 30KΩ	+25...+85 °C -40...+125 °C	-	±0,5 °C ±1 °C

T*=Measured temperature. Always take into consideration the worst case.



Average response time of a probe in a liquid.

THERMOCOUPLE T

BEST FOR FOOD INDUSTRY AND PHARMA



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t ₉₀ min	Precision class	P/N
3T 320 AIR - LIQUID	200 mm	Ø= 3 mm		- 50 ... +350	0 ... +300	3	1	51000902
3T 415 PENETRATION	150 mm	Ø= 4 mm		- 50 ... +350	0 ... +300	2	1	51000912
3T 215 PENETRATION	150 mm	Ø= 2 mm		- 50 ... +350	0 ... +300	1	1	51000942
3T 520 C CONTACT	200 mm	Ø= 5 mm		- 50 ... +350	0 ... +250	2	1	51000922
3T 420 A AIR	200 mm	Ø= 4 mm		- 50 ... +250	0 ... +200	2	1	51000932

WITHOUT HANDLE - FOR OVENS AND INCUBATORS

3T 210 AIR - LIQUID	100 mm	Ø= 2,5 mm		- 50 ... +300	-40... + 250	2	1	51000952
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3T 210

NTC THERMISTOR

BEST FOR FOOD INDUSTRY AND HACCP



Name	Stem length	Stem diameter	Tip	Measuring Range	Certifiable range	t ₉₀ min	P/N
NT7L AIR - LIQUID	200 mm	Ø= 3 mm		-50 ... +150	0 ... +150	3	50011142
NT7P PENETRATION	150 mm	Ø= 4 mm		-50 ... +150	0 ... +150	3	50011122

	Temp 70 Vio PT100	Temp 7 Vio PT 100	Temp 7 Vio NTC	Temp 7 Vio K/T
Sensor	PT 100	PT 100	NTC 30K	Type K - T
Measuring range	-200,0 ... +999,9 °C	-200 ... +999 °C	-50,0 ... +150,0 °C	K: -200 ... +1350 °C T: -250 ... +400 °C
Resolution	0,01 °C (-99,99 ... +99,99 °C) 0,1 °C in the rest of the scale	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale	0,1 °C	0,1 °C (-99,9 ... +199,9 °C) 1 °C in the rest of the scale
Accuracy	±0,03 °C (-99,99 ... +99,99 °C) ±0,1 °C in the rest of the scale	±0,2 °C (-99,9 ... +199,9 °C) ±2 °C in the rest of the scale	±0,2 °C	±0,1% of measure / ±0,4 °C (> -150 °C) ±0,25% of measure / ±1 °C (< -150 °C)
Channels	2	1	1	1
Datalogger	1000 data	-	-	-
Sampling	Manual / automatic 1 min ... 99 h	-	-	-
Stability indication	Yes			
Min/Max function	Yes			
Hold function	Yes			
Working conditions	T: 0 ... +60 °C UR: < 95 %			
Protection class	IP56			
Auto-off	Yes, after 20 minutes (switchable)			
Display	Backlit color high definition LCD display			
Brightness/contrast adjustment	Automatic / Manual	Manual	Manual	Manual
Connections	2x 3 pin connector	1x 3 pin connector	1x RCA connector	1x ANSI connector
Power supply	3 x 1,5V "AA" alkaline			
Battery life	> 550 h			
Weight and dimensions	185 x 85 x 45 mm / 400 g			
P/N	50111082	50111012	50111052	50111032

Applications

Galvanics, chemical industry, food industry, cooling towers and boilers, water and wastewater treatment, HVAC (Head Ventilation Air Conditioning), agriculture and gardening, Mechanical engineering, laboratories and schools.

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YEARS



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